

Customer No. 24498  
Serial No. 10/566,493  
Reply to Office Action Dated 11/24/08

Atty. Docket No. PU030229

**REMARKS**

Claims 1-20 are pending in the Application. Claim 1-20 are rejected by Examiner. Claims 3, 5, 10, 14, and 19 have been objected to. Claims 1, 3, 5, 7, 10, 14 and 15 are amended by Applicant. Claims 2 and 16 have been cancelled.

**Amendments to the Claims**

Claims 1, 7, and 15, have been amended to incorporate the subject matter of claims 2 and 16. Claims 2 and 16 have been cancelled. Claims 1, 7, and 15 have also been amended to clarify it is the brightness of the primary color immediately before the spoke and the primary color immediately after the spoke that is decreased to compensate for the brightness increase caused by using the light from an individual spoke. Claims 3, 5, 10, 14, and 19 have been amended as suggested by the Examiner to address the Objections raised by the Examiner.

**Claim Rejections Pursuant to 35 U.S.C. §102**

Claims 1, 2, 4, 6, 7, 9, 11, 13, 15, 16, 18, and 20 have been rejected under 35 U.S.C. § 102(b) as being anticipated by Morgan in U.S. Patent Application No. 6,324,006 (Hereinafter Morgan). Applicant respectfully traverses the rejection.

**Claims 1, 7, 11 and 15**

Morgan fails to disclose each and every element of independent claims 1, 7, 11, and 15. Specifically, Morgan fails to disclose altering the control signal or sequence to decrease the brightness of the primary color immediately before and the primary color immediately after an individual spoke to compensate for the brightness increase caused from using the light during the individual spoke.

The present application deals with using spoke light from individual spokes to boost the brightness of any of the primary colors of the color wheel (color

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changer) when the brightness level of the primary colors exceeds a threshold level.

To compensate for the brightness gained by using spoke light from an individual spoke, the brightness of the primary colors that occur immediately before and after the individual spoke on the color wheel are adjusted. The claims have been amended to clarify this. This concept is not disclosed, taught or suggested in Morgan.

In Morgan the spoke light is used to boost the brightness of white. In order to do this the light multiple spokes must be used so the resulting light is white. Morgan does not disclose, teach or suggest boosting the brightness of any of the primary colors such as Red, Blue, or Green using individual spokes as set forth in the present invention. Indeed, Morgan actually teaches away from using the light from individual spokes to boost the brightness of primary colors. (See column 3, lines 26-30 and column 5, lines 5-7)

In contrast, in the present invention, light from an individual spoke (such as the spoke between red and green) can be used to increase the brightness of green for the pixel. However since the spoke light contains both red and green. The brightness of red proceeding the spoke and the green following the spoke need to be decreased to compensate for the additional red and green added by the spoke light from the individual spoke. This concept is simply not disclosed in Morgan.

The Examiner assert that Morgan does disclose decreasing the brightness before and after the spoke citing col. 11, lines 16-22 and Table 2. However, these sections are only directed to adjusting the white level. Not the brightness of primary colors before or after the spoke to compensate for the added brightness to the primary colors before and after the spoke caused by using the spoke light from the individual spoke. In Column 11, lines 16-22 the brightness for white is reduced to compensate for the brightness added by the combination of light from multiple spokes. In Table 2 the green and blue levels are reduced to correct the hue of white

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produced by the combination of white light contributed by the White segment of the color wheel (W-white), the white light contribute by the combination of Red, Green, and Blue light (RGB-white) and light from multiple spokes (GW and BR spokes). This is not the same as what is set forth in independent claims 1, 7, 11, and 15.

Thus, in view the amendments and above arguments, Applicant respectfully submits that Morgan fails to disclose each and every element of claims 1, 7, 11 and 15. Accordingly, Morgan does not anticipate claims 1, 7, 11, and 15. As such, Applicant respectfully requests the Examiner withdraw the rejection under 35 U.S.C. § 102(b) and pass claims 1, 7, 11 and 15 to allowance.

#### Claims 2, 16

Claims 2 and 16 have been cancelled and the subject matter has been incorporated into independent claims 1, 7, and 15. The rejection of the subject matter is addressed above in regard to claims 1, 7, 11, and 15.

#### Claims 4, 6, 9, 13, 18, and 20

Claims 4, 6, 9, 13, 18, and 20 depend from independent claims 1, 7, 11, and 15 and, as such, incorporate each and every element of their respective independent claim. As set forth above, Morgan fails to disclose each and every element of claims 1, 7, 11, and 15 and, as such, also fails to disclose each and every element of claims 4, 6, 9, 13, 18, and 20. Accordingly, Morgan does not anticipate claims 14, 6, 9, 13, 18, and 20. As such, Applicant respectfully requests the Examiner withdraw the rejection under 35 U.S.C. § 102(b) and pass claims 4, 6, 9, 13, 18, and 20 to allowance.

#### **Claim Rejections Pursuant to 35 U.S.C. §103**

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Claims 3, 5, 8, 10, 12, 14, 17, and 19 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Morgan in U.S. Patent Application No. 6,324,006 (Hereinafter Morgan). Applicant respectfully traverses the rejection.

Claims 3, 5, 8, 10, 12, 14, 17, and 19 depend from independent claims 1, 7, 11, and 15 and, as such, incorporate each and every element of their respective independent claim. For much the same reasons as set forth above in discussing the 35 U.S.C. § 102 rejections, Morgan fails to teach, or suggest each and every element of amended independent claims 1, 7, 11, and 15. As such, Morgan also fails to teach or suggest each and every element of claims 33, 5, 8, 10, 12, 14, 17, and 19 which depend from independent claims 1, 7, 11, and 15.

As discussed above, the present application deals with using spoke light from individual spokes to boost the brightness of any of the primary colors of the color wheel (color changer) when the brightness level of the primary colors exceeds a threshold level. To compensate for the brightness gained by using spoke light from an individual spoke, the brightness of the primary colors that occur immediately before and after the individual spoke on the color wheel are adjusted. The claims have been amended to clarify this. This concept is not disclosed, taught or suggested in Morgan.

In Morgan the spoke light is used to boost the brightness of white. In order to do this the light multiple spokes must be used so the resulting light is white. Morgan does not disclose, teach or suggest boosting the brightness of any of the primary colors such as Red, Blue, or Green using individual spokes as set forth in the present invention. Indeed, Morgan actually teaches away from using the light from individual spokes to boost the brightness of primary colors. (See column 3, lines 26-30 and column 5, lines 5-7)

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Thus, in view the amendments and above arguments, Applicant respectfully submits that Morgan fails to teach or suggest each and every element of amended independent claims 1, 7, 11 and 15 as well as dependent claims 3, 5, 8, 10, 12, 14, 17, and 19 which depend from the independent claims. Accordingly, claims 3, 5, 8, 10, 12, 14, 17, and 19 are patentable over Morgan. As such, Applicant respectfully requests the Examiner withdraw the rejection under 35 U.S.C. § 103(a) and pass claims 3, 5, 8, 10, 12, 14, 17, and 19 to allowance.

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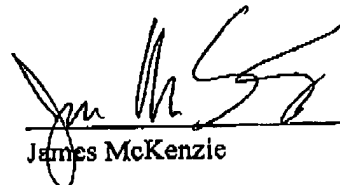
CONCLUSION

Applicant respectfully submits that the amended pending claims patentably define over the cited art and respectfully requests reconsideration and withdrawal of the 35 U.S.C. §102 and 103 rejections of the pending claims. Renewed reconsideration for a Notice of Allowance is respectfully requested.

If there are any additional charges in connection with this requested amendment, the Examiner is authorized to charge Deposit Account No. 07-0832 therefore.

Respectfully submitted,  
Donald Henry Willis

Date: 10/23/09



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